

## ABSTRACT OF THE DISCLOSURE

An image processing apparatus includes a horizontal direction interpolation section for performing data interpolation in a horizontal direction using a plurality of pieces of pixel data adjacent to a first pixel position in the horizontal direction to generate a first color signal; a line memory section for storing the first color signal in units of a plurality of lines; a vertical direction interpolation section for performing data interpolation in a vertical direction using a plurality of pieces of pixel data, among pieces of data output from the line memory section, adjacent to a second pixel position in the vertical direction to generate a second color signal; and a luminance and color difference signal generation section for generating a luminance signal and color difference signals based on the second color signal.